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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,809	06/28/2001	Manish S. Prabhu	MS174294.1	7096

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AMIN & TUROCY, LLP
24TH FLOOR, NATIONAL CITY CENTER
1900 EAST NINTH STREET
CLEVELAND, OH 44114

EXAMINER

TRUONG, LECHI

ART UNIT	PAPER NUMBER
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2126

DATE MAILED: 05/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/893,809

Applicant(s)

AAAA

Examiner

LeChi Truong

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. Claims 1-27 are presented for the examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kind(US. Patent 6,415,434 B1).

3. **As to claim 1**, Kind teaches the invention substantially as claims including: a first entity (application programming interface file 128, col 4, l n 35-55/ Fig. 1/ client side 30, col 6, l n 65/67/ Fig. 3), a second entity (target method 100, col 4, l n 40-55, Fig. 1), data type (data type, col 3, l n 50-60/ col 5, l n 1-5/ col 10, l n 55-65), mismatched (if there is no exact method, col 4, l n 45-60/ col 3, l n 35-40), a data type identifier adapted (method get Method 112, col 4, l n 45-55/ Fig. 1), resolvable data type (resolved method 116, Fig.1), identify(determine, col 4, l n 45-550, a data type revolver adapter(a revolver 104, col 35-60), resolving the mismatched data type(find the best method by accessing 120 inheritance relationships and conversion tables 118, col 4, l n 50-60/ col 4, l n 64-68/ col 5, l n 1-10/ col 11, l n 56-65/ col 10, l n 45-63). Kind does not explicit teach the term facilitating interactions. However, Kind teaches facilitating (reusing the same method name for a method that accept different parameter types, col 1, l n 37-43). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to apply

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the teaching of Kind because Kind's reusing would allow a programmer to reuse the full functionality of a method on different parameter data types without having to create unique method names for each data type.

4. **As to claim 2**, Kind teaches a client(client machine 300, Fig. 3), a server(server, Fig. 3).

5. **As to claim 3**, Kind teaches at least one of data and behavior (Object 1 of type circle, col 11, and ln 47-55/ X (int XA, int XB, int XC, col 10, and ln 60-64).

6. **As to claim 4**, Kind teaches the metadata facilitates identifying (col 10, ln 45-47).

7. **As to claim 5**, Kind teaches a metadata reader adapter (accessing 120, col 4, ln 50-55), metadata (candidate method, col 4, ln 55), a resolvable data type (target method parameter, col 4, ln 50-55), attribute identifying subsystem (col 4, ln 45-50), an attribute populating subsystem (inheritance relationship and conversion tables 118, col 4, ln 50-55, Fig. 1)

8. **As to claim 6**, Kind teaches a proxy (a proxy, col 6, ln 48-50), data type is adapted to be incrementally extensible (col 6, ln 48-52).

9. **As to claim 7**, Kind teaches an as need basis (a marker that indicated whether serialization is allowed on a given data type, col 7, ln 30-34).

10. **As to claim 8**, it is an apparatus claim of claim 1; therefore, it is rejected for the same reason as claim 1 above.

11. **As to claim 9**, Kind teaches a first entity (application programming interface file 128, col 4, ln 35-55/ Fig. 1/ client side 30, col 6, ln 65/67/ Fig. 3), a second entity (target method 100, col 4, ln 40-55, Fig. 1), a first data type (parameter, col 10, ln 30-44), a second data type (a the parameter of the target method, col 10, ln 40-44/ col 10, ln 45-63), comparing (match, col 10, ln 30-45), an object of a third data type (the first data type is assigned to a second data type, col 10,

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In 55-64/ a candidate methods is a method comprising parameters , col 10, ln 45-64/), feature common (inherent, col 10, ln 55-60).

12. **As to claim 10, 11**, they are apparatus claims of claims 2,3; therefore, they are rejected for the same reason as claims 2,3 above.

13. **As to claim 12, 13**, Kind teaches identifying, comparing one or more attributes or method associated with first data type and the second data type (col 11, ln 46-55/ col 12, ln 10-20/ col 10, ln 35-45).

14. **As to claim 14**, it is an apparatus claim of claim of claim 5; therefore, they are rejected for the same reason as claim 5 above.

15. **As to claim 15**, Kind teaches one or more method link (a first data type can be assigned to second data type, col 10, ln 55-62).

16. **As to claim 16, 17, 18**, they are apparatus claims of claims 6, 7; therefore, they are rejected for the same reasons as claims 6,7 above.

17. **As to claim 19**, it is an apparatus claim of claim 9; therefore, it is rejected for the same reason as claim 9 above.

18. **As to claims 20, 21, 22**, they are apparatus claims of claims 6,7; therefore, they are rejected for the same reason as claims 6,7.

19. **As to claims 23**, Kind teaches first fields (a target method, col 11, ln 46-56), information concerning attributes (parameter Obj 1, col 11, ln 46-56), a first data type (type circle, col 11, 46-45), data type is adapted to be incrementally extensible (col 6, ln 48-52), a marker that indicated whether serialization is allowed on a given data type, col 7, ln 30-34), one or more fields (a

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candidate method, col 11, ln 46-55), information concerning method (parameter object 2, col 11, ln 46-55), associated with first data type(Circle is a subclass of Shape, col 11, n 35-40).

20. **As to claim 24, 25**, Kind teaches one or more third fields / four fields (a list of candidate method, col 10, ln 45-50), in formation concerning one or more data type (col 10, ln 55-60).


20. **As to claims 26, 27**, they are apparatus claims of claims 19, 22; therefore, it is rejected for the same reason as claims 19, 22 above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on 703-305-9678. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).


MENG-AI T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100